WHAT IS CLAIMED IS:

Sub a1

1. ~~A glass touch sensing circuit comprising:~~

a touch sensor for providing its output signal in response to a user's touch;

switching means having a switching period of time differently determined depending on the level of the output signal from said touch sensor;

comparison means for compensating the level of a reference signal for a variation in temperature, comparing the level of an output signal from said switching means with that of the compensated reference signal and outputting a wave-shaped signal in accordance with the compared result; and

touch detection means responsive to an output signal from said comparison means for detecting whether the user touches said touch sensor.

2. A glass touch sensing circuit as set forth in Claim 1, further comprising charging/discharging means for charging and discharging a voltage which is different in level according to whether the user touches said touch sensor, said switching time period of said switching means being determined depending on the level of said voltage being charged and discharged by said charging and discharging means.

3. A glass touch sensing circuit as set forth in Claim 1, wherein said touch detection means includes:

signal output means for providing its output signal synchronously with said output signal from said comparison means; and

recognition means for recognizing a touched key in response to the output signal from said signal output means.

4. A glass touch sensing circuit as set forth in Claim 3, wherein said recognition means is adapted to recognize the input of said touched key and initialize said signal output means.

5. A glass touch sensing circuit as set forth in Claim 1, wherein said touch detection means includes:

a D flip-flop having a clock terminal connected to an output terminal of said comparison means, said D flip-flop being enabled in response to a clock signal being applied to said clock terminal; and

a microprocessor having an input terminal connected to an output terminal of said D flip-flop, said microprocessor recognizing the user's touch with said touch sensor in response to an output signal from said D flip-flop and initializing said D flip-flop.

6. ~~A glass touch sensing circuit as set forth in Claim 1,~~ wherein said comparison means includes a thermistor for compensating the level of said reference signal for the temperature variation.

7. A glass touch sensing circuit as set forth in Claim 6, wherein said comparison means further includes a comparator having a first input terminal connected to an output terminal of said switching means, and a second input terminal for inputting a voltage determined in level by said thermistor and fixed resistors.

8. A glass touch sensing circuit as set forth in Claim 1, wherein said switching means includes a transistor turned on ~~in response to said output signal from said touch sensor.~~

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